

Trass mortar for clinker jointing

Joint filling mortar for walls made of all types of facade and clinker bricks and tiles

Properties:

- mineral composition
- hydrophobic
- high substrate adhesion
- compression strength ≥ 10 MPa
- selected ballast fractions
- risk of efflorescence formation minimized by appropriate selection of Tubag Rhine trass-containing binders
- resistant to harsh atmospheric conditions after setting (including heavy rain and frost)
- easy setting and use
- available colours: see JOINT FILLING sampler



Intended use:

- for outdoor and indoor use
- joint width: 6–15 mm
- joint depth: min. 8 mm
- for joint filling / jointing of vertical surfaces:
 - facades, fences, fence posts and walls, stacks made of facade clinker bricks,
 - natural and man-made facade stone facings,
 - all types of facade and clinker bricks,
 - clinker and facade tiles more than 8 mm thick,
 - clinker tiles and stone facings up to 15 mm this using the Lobatherm P system
- for jointing walls of historic buildings made of clinker bricks joined with mortars that contained an admixture of cement.

Quality and reliability:

- mortar class M10 acc. to **EN 988-2**, CG2 WA acc. to **EN 13888**
- binder conforming to **EN 197**
- chromium VI content reduced to <2 ppm
- subject to continuous quality control according to **ISO 9001**

Substrate preparation:

The substrate must be of appropriate load capacity, clean, free of dust and any contaminants that would reduce adhesion. Remove loose debris and mortar residues. The thickness of the **FM T** mortar layer should not be lower than 10 mm or greater than 20 mm. Joint filling may be performed after the brick mortar in the wall has set completely. This usually takes about 2 weeks. In order to avoid discolorations, cracks, or delamination, ensure constant thickness of joint along the entire wall. Fill any empty spaces within the wall structure with the quick-mix **HM 2a T** masonry mortar.

When using the Lobatherm P thermal insulation system, joint filling may be performed after the **FX 900 Super flex** adhesive has set completely, i.e.. about 14 days after the installation of tiles. Before applying the joint, moisten the substrate to obtain a matte/moist surface at the application site.

Application:

Pour the contents of one 25 kg packaging into ca. 2.1 liters of water and mix thoroughly using widely available low-speed mixers until homogeneous mass of wet soil consistency is obtained. In order to avoid colour differences, use constant quantities of setting water per each 25 kg of dry **FM T** mortar. Another condition for maintaining the homogeneity of joint colour is a constant rate of work progress. Thus prepared mortar batch should be used within ca. 1 hour. **FM T** mortar should be applied using an acid-resistant, stainless steel joint-filling trowel.

For brighter tones (e.g. sand, beige, white, etc.), use tools made of stainless steel, wood, or other materials which would leave no marks on the joint surface. Joints should be filled using the "fresh-to-fresh" technique and densified by compaction. Full semicircular concave or straight joints are recommended. Fresh joint should be kept moist to avoid the "burning" of mortar. Fresh mortar should be protected from adverse atmospheric conditions (frost, winds, direct sunlight, and rain). Work should be performed at air and substrate temperatures of $+5^{\circ}\text{C}$ to $+25^{\circ}\text{C}$. Lack of appropriate care for the maintenance of optimum working conditions may result in efflorescence formation. It is recommended that all brickwork is carried out using the mortar from a single manufacturing batch. If different batches of the same colour and different manufacturing dates are available for brickwork, dry mortar should be sampled from different batches and mixed upon setting. One must remember to use entire

packages for mixing. When working, observe the brick or tile manufacturer's recommendations. The brickwork and joint filling should be performed in accordance with the general masonry principles. When finished, elements such as walls, posts and bays should be capped with elements that guarantee appropriate protection from atmospheric factors (rainwater, snow, etc.) such as canopies, caps, or other single- or multi-roofed profiles.

Consumption:

The consumption depends on the number of bricks per 1m² and the desired joint thickness. Mean consumption is ca. 5.0-5.5 kg of FM T mortar per 1m² for standard brick size and joint cross-section of 10 x 10 mm.

Working temperature:

Mortar should be applied at air and substrate temperatures of + 5°C to +25°C.

A perfect system:

When building clinker brick walls in a dual-stage system, use the quick-mix **HM 2a T** mortar.

Tool cleaning:

Water and stiff-bristle brush. When set, mortar should be cleared with mechanical tools.

Storage:

Store in a dry place on wooden pallets. Storage time: 12 months from the date of manufacture provided on the packaging.

Packaging:

25 kg bag.

Safety:

Observe occupational health and safety rules.


Note:

Product contains cement which may have sensitization effects. Alkaline solutions are formed when combined with water. Protect eyes and skin. In case of contact with skin, wash the contact site thoroughly with water. In case of contact with eyes, consult a physician. The presented information was obtained in extensive testing and many years of practical experience. However, it is not translatable to every variant of use. Therefore, users are recommended to perform their own tests to establish suitability for given applications. The manufacturer reserves the right to modify technical specifications in the course of product development.

Specifications:

material flammability class:	A 1
mortar class:	M10 acc. to EN 998-2, CG2 WA acc. to EN 13888
compression strength:	≥ 10 N/mm ²
grain size:	0-1.2 mm
working temperature:	+ 5°C to + 25°C
water use:	ca. 2.1 l per 25 kg bag
yield:	ca. 15 l of mortar obtained from 25 kg packaging unit
consumption:	ca. 5–5.5 kg/m ² for standard-sized bricks
storage:	store in a dry place for 12 months after the manufacturing date
form of delivery:	25 kg

The technical data are valid for the temperature of 20°C and relative air humidity of 65%.

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FM T	
Nr QM-260214-G	
EN 998-2:2016 Bricklaying mortar for general purposes (G)	
1488-CPR-0014/Z 1488-CPR-0102/Z	
Bricklaying mortar as designed, for general purposes, for indoor and outdoor use in building elements subject to construction requirements, intended for use in the construction of walls, posts, and partitions.	
Reaction to fire:	A1
Compression strength:	M 10
Initial shear strength:	Initial shear strength of bricklaying mortars $\geq 0.10 \text{ N/mm}^2$ (the value measured according to EN 1052-3, method B, in combination with silicate reference blocks with the specific humidity within the range between 3% and 5%)
Water absorbability:	$\leq 0.40 \text{ kg}/(\text{m}^2 \cdot \text{min}^{0.5})$
Chlorides:	$\leq 0.1 \text{ \%Cl}$
Water vapour diffusion coefficient μ	15/35 (tabulated parameter, EN 1745:2012, Table A.12)
Heat conduction coefficient $\lambda_{10, \text{dry, mat}}$:	$\leq 0.82 \text{ W}/(\text{mK})$ for P=50% $\leq 0.89 \text{ W}/(\text{mK})$ for P=90% (tabulated parameter, EN 1745:2012, Table A.12)

The product is a component of thermal insulation systems:

LOBATHERM P; LOBATHERM P-WM, and it is compliant with the following national technical assessment:
 LOBATHERM P: ITB-KOT-2017/0343, version 3; LOBATHERM P-WM: ITB-KOT-2019/1026, issue 2

Valid as of: May 2022

All previous manuals are voided by the publication of this technical manual.

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